# Design and Technology (GCSE)

**Information from the exam board can be found here.**

**Grades awarded:** 9 – 1

### Why study this subject?

Studying GCSE Design and Technology prepares students to participate confidently and successfully in an increasingly technological world. Students will gain awareness of wider influences on engineering including historical, social, cultural, environmental and economic factors. The GCSE course allows students to study core technical and designing and making principles, including a broad range of design processes, materials techniques and equipment. They will also have the opportunity to study specialist technical principles in greater depth.

### What will I study in this course?

- A range of practical skills.
- Hand drawing skills.
- Computer Aided Design (CAD) skills.
- A range of materials.
- A range of Engineering processes.
- An understanding of how products are manufactured.

### How will I be assessed?

The course is assessed by coursework (50%) and examination (50%). For the coursework component, you will follow the design brief to research, design, develop, make and evaluate a product. The product is determined by the exam board. This project is started at the end of Year 10 and is completed at the end of the Spring Term in Year 11. The examination component is based on the knowledge you have acquired whilst studying the course. The exam is taken at the end of Year 11.

### What will this qualification lead to?

GCSE Design and Technology can lead to A Level Product Design (offered at The King's Academy Sixth Form) or a range of vocational engineering courses. The GCSE course also covers the skills and knowledge required as an introduction to the vast range of engineering careers available. Many of our past students have continued their learning on engineering based university degree courses, Level 3 courses at other Sixth Forms and work-based apprenticeships.

### How is the course structured?

| | Autumn Term | Spring Term | Summer Term |
|---|---|---|---|
| Year 9 | Bottle Opener Project Clock Project – Focus on wood joints | Project 2 begins- Design a wooden storage box using CAD and 3D isometric drawing techniques. | Project 2 continues learning joint techniques, hinges and finishing of different timbers. |
| Year 10 | Design and make desk tidy project, begin exam topics. | Drawing and modelling skills for a chair, continuing exam topics. | Start of GCSE Coursework Continue with Exam Topics |
| Year 11 | Continue with Coursework Continue with Exam Topics | Continue with Coursework Continue with Exam Topics | Revision & Examinations |

**For more information, contact:** Mrs Trotter

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